

**COSMOB**

LABORATORIO TECNOLOGICO QUALITÀ

Test Report**n° TR 069916-01.1**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	13/02/2017		
End of the test	13/02/2017		
Sample identification		Pannello MFC SM'art identified with code 069916-01-01	
Standard	UNI EN 14323:2005	Title	Melamine faced boards for interior uses. Test methods. Par 5.4 Surface defects.

SAMPLE DESCRIPTION

Dimensions of the board:	300 mm x 400 mm
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TEST RESULTS

Sample number	Type of defects	Length (mm)	Width (mm)	Area (mm ²)
069916-01-01	No defects found	-	-	-

Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

END OF THE TEST REPORT N° 069916-01.1

This document is the English translation of the report issued in date 14/02/2017, n° RP 069916-01.1, for SM'art s.r.l.

Chemical Area Manager
Dr. Alessandra Cecchini

Laboratory Technical Manager
Eng. Francesco Balducci

Montelabbate: February 14th 2017.

I risultati contenuti nel presente rapporto si riferiscono solamente al campione esaminato. La denominazione del campione è quella indicata dalla ditta richiedente. Il richiedente ha l'obbligo di riprodurre il rapporto di prova per intero. Aggiunte, cancellazioni o alterazioni non sono ammesse.

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LABORATORIO TECNOLOGICO QUALITÀ

Test Report**n° TR 069916-01.2**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	13/02/2017		
End of the test	14/02/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-02, 03 e 04	
Standard	UNI EN 14323:2005	Title	Melamine faced boards for interior uses. Test methods. Par 5.5 Resistance to scratching.

SAMPLE DESCRIPTION

Type of material:	particle board
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TEST RESULTS

Minimum load giving a continuous mark visible (N)	> 4
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Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

END OF THE TEST REPORT N° 069916-01.2

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Chemical Area Manager
Dr. Alessandra Cecchini

Laboratory Technical Manager
Eng. Francesco Balducci

Montelabbate: February 14th 2017.

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LABORATORIO TECNOLOGICO QUALITÀ

Test Report**n° TR 069916-01.3**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	07/02/2017		
End of the test	09/02/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-05 e 06	
Standard	UNI EN 14323:2005	Title	Melamine faced boards for interior uses. Test methods. Par 5.6 Resistance to staining.

SAMPLE DESCRIPTION

Type of material:	particle board
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TEST RESULTS

Staining agent	Test sample	Contact time (h)	Result
Acetone	069916-01-05	16	5. – No visible change.
Acetone	06991601-06	16	5. – No visible change.
Black coffee	069916-01-05	16	5. – No visible change.
Black coffee	069916-01-06	16	5. – No visible change.

Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

END OF THE TEST REPORT N° 069916-01.3

This document is the English translation of the report issued in date 14/02/2017, n° RP 069916-01.2, for SM'art s.r.l.

Chemical Area Manager
Dr. Alessandra Cecchini

Laboratory Technical Manager
Eng. Francesco Balducci

Montelabbate: February 14th 2017.

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LABORATORIO TECNOLOGICO QUALITÀ

Test Report**n° TR 069916-01.4**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	06/02/2017		
End of the test	08/02/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-07	
Standard	UNI EN 14323:2005	Title	Melamine faced boards for interior uses. Test methods. Par 5.7 Resistance to cracking.

SAMPLE DESCRIPTION

Type of material:	particle board
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TEST DESCRIPTION

The result of the examination shall be expressed in accordance with the following rating scale.

- 5 - Without cracks
- 4 - Isolated hairline cracks
- 3 - Hairline cracks randomly distributed over the total surfaces
- 2 - In addition to stage 3, 1 to small cracks < 25 mm have appeared on the surface which are still visible at an observation distance of 400 mm
- 1 - More cracks spread over the total surface area

TEST RESULTS

Test sample	Oven temperature (°C)	Rating
069916-01-07	70	5

Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

END OF THE TEST REPORT N° 069916-01.4

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Chemical Area Manager
Dr. Alessandra Cecchini

Laboratory Technical Manager
Eng. Francesco Balducci

Montelabbate: February 14th 2017.

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LABORATORIO TECNOLOGICO QUALITÀ

Test Report**n° TR 069916-01.5**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	13/02/2017		
End of the test	13/02/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-08, 09 e 10	
Standard	UNI EN 14323:2005	Title	Melamine faced boards for interior uses. Test methods. Par 5.9 Resistance to abrasion of the decorative surface layer.

SAMPLE DESCRIPTION

Type of material:	particle board
Type of surface:	surface with decorative reliefs

RISULTATI DELLA PROVA

Correction factor:	0,88
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Test sample	Initial wear point (IP), as a number of revolutions	Resistance to surface wear, as a number of revolutions
069916-01-08	375	563
069916-01-09	300	500
069916-01-10	350	538
Average of the wear resistance, as a number of revolutions *:	350	550

* Rounded to the nearest 50 revolutions as described in the Standard

Class according to EN 14322: 2005	3A
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Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

END OF THE TEST REPORT N° 069916-01.5

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Chemical Area Manager
Dr. Alessandra Gecchini

Laboratory Technical Manager
Eng. Francesco Balducci

Montelabbate: February 14th 2017.

I risultati contenuti nel presente rapporto si riferiscono solamente al campione esaminato. La denominazione del campione è quella indicata dalla ditta richiedente. Il richiedente ha l'obbligo di riprodurre il rapporto di prova per intero. Aggiunte, cancellazioni o alterazioni non sono ammesse.

**COSMOB**

LABORATORIO TECNOLOGICO QUALITÀ



LAB N° 0240

Test Report**n° TR 069916-01.6**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	19/01/2017		
End of the test	02/02/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-11 e 13	
Standard	UNI EN ISO 12460-3:2015	Title	Determination of formaldehyde release. Part 3: Gas analysis method.

SAMPLE DESCRIPTION

Type of board*	Particle board
Thickness of board (mm)*	20,2

* data obtained from the laboratory.

Sampling was carried out by customer. The name and the description of the sample are declared by the customer.

TEST RESULTS

Density of board in according to UNI EN 323:1994 (kg/m ³) **	642,8
Moisture content in according to ISO 16979:2003 (%) **	7,0

** This standards are not accredited by ACCREDIA

Test sample	Formaldehyde emission (mg/m ² h)
069916-01-11	0,1
069916-01-13	0,1
Average value (mg/m ² h):	
< LOQ***	

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COSMOB

LABORATORIO TECNOLOGICO QUALITÀ



LAB N° 0240

Test Report

n° TR 069916-01.6

***Limit of quantification = 0,2 mg/m²h.

The expanded uncertainty of measurement U (f) by the coverage factor tp = 2.6 corresponds to a 95% confidence interval, is U (f) = ± 0.5 mg / m²h.

END OF THE TEST REPORT N° 069916-01.6

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Chemical Area Manager
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Montelabbate: February 14th 2017.

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LABORATORIO TECNOLOGICO QUALITÀ



LAB N° 0240

Test Report**n° TR 069916-01.7**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	17/01/2017		
End of the test	19/01/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-12	
Standard	UNI EN 12720:2013	Title	Furniture – Assessment of surface resistance to cold liquids.

CONDITIONING

Start date conditioning:	29/12/2016
End date conditioning:	17/01/2017

TEST DESCRIPTION

The liquids are those indicated in the standard UNI CEN/TS 16209:2011

Rate the test surfaces by comparing the test area with the area surrounding it for each liquid according to the following table:

- 5 - No change. Test area indistinguishable from adjacent surrounding area.
- 4 - Minor change. Test area distinguishable from adjacent surrounding area, only when the light source is mirrored on the test surface and is reflected towards the observer's eye, e.g. discoloration, change in gloss and colour. No change in the surface structure, e.g. swelling, fibre raising, cracking, blistering.
- 3 - Moderate change. Test area distinguishable from adjacent surrounding area, visible in several viewing directions, e.g. discoloration, change in gloss and colour. No change in the surface structure, e.g. swelling, fibre raising, cracking, blistering.
- 2 - Significant change. Test area clearly distinguishable from adjacent surrounding area, visible in all viewing directions, e.g. discoloration, change in gloss and colour, and / or structure of the surface slightly changed, e.g. swelling, fibre raising, cracking, blistering.
- 1 - Strong change. The structure of the surface being distinctly changed and / or discoloration, change in gloss and color, and / or the surface material being totally or partially removed, and / or the filter paper adhering to the surface.

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LABORATORIO TECNOLOGICO QUALITÀ



LAB N° 0240

Test Report

n° TR 069916-01.7

TEST RESULTS

Liquid designation	Application time 24 h	Application time 16 h	Application time 6 h	Application time 1 h	Application time 10 min	Application time 2 min	Application time 10 s
	Diffused daylight	Diffused daylight	Diffused daylight	Diffused daylight	Diffused daylight	Diffused daylight	Diffused daylight
Acetic acid (10% m/m)	-	5	5	5	5	5	5
Acetone	-	5	5	5	5	5	5
Ammonia solution (10% m/m)	-	5	5	5	5	5	5
Citric acid (10% m/m)	-	5	5	5	5	5	5
Cleansing agent	-	5	5	5	5	5	5
Coffee	-	5	5	5	5	5	5
Ethanol (48% V/V)	-	5	5	5	5	5	5
Paraffin oil	5	5	5	5	5	5	5
Distillated water	5	5	5	5	5	5	5
Basic sweat	-	5	5	5	5	5	5

Class of use according to the UNI CEN/TS 16209:2011	A
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* This standard is not accredited by ACCREDIA

Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

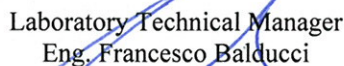
END OF THE TEST REPORT N° 069916-01.7

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Chemical Area Manager
Dr. Alessandra Cecchini



Laboratory Technical Manager
Eng. Francesco Balducci



Montelabbate: February 14th 2017.

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LABORATORIO TECNOLOGICO QUALITÀ



LAB N° 0240

Test Report**n° TR 069916-01.8**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	31/01/2017		
End of the test	01/02/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-14	
Standard	UNI EN 12721:2013	Title	Furniture – Assessment to resistance to wet heat.

CONDITIONING

Start date conditioning:	29/12/2016
End date conditioning:	31/01/2017

SAMPLE DESCRIPTION

Type of material:	particle board
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TEST RESULTS

FIRST TEST

Test temperature (°C)	Assessment registered according to Table 1 of standard UNI EN 12721:2013	Results
	Diffuse light source as par. 5.8 of standard	
55	5	No change.
70	5	No change.
85	5	No change.
100	4	Minor change: visible in reflected light, light discoloration.

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LAB N° 0240

Test Report n° TR 069916-01.8

SECOND TEST

Test temperature (°C)	Assessment registered according to Table 1 of standard UNI EN 12721:2013	Results
	Diffuse light source as par. 5.8 of standard	
55	5	No change.
70	5	No change.
85	5	No change.
100	4	Minor change: visible in reflected light, light discoloration.

**Class of use according
to the UNI CEN/TS
16209:2011*****A**

* This standard is not accredited by ACCREDIA

Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

END OF THE TEST REPORT N° 069916-01.8

This document is the English translation of the report issued in date 14/02/2017, n° RP 069916-01.8, for SM'art s.r.l.

Chemical Area Manager
Dr. Alessandra Cecchini

Laboratory Technical Manager
Eng. Francesco Balducci

Montelabbate: February 14th 2017.

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LABORATORIO TECNOLOGICO QUALITÀ



LAB N° 0240

Test Report**n° TR 069916-01.9**

Date of receipt	29/12/2016	For the attention of SM'art s.r.l., Strada Borgaretto 42/2AC, 10043 Orbassano (TO)	
Start of the test	01/02/2017		
End of the test	02/02/2017		
Sample identification		Campione MFC SM'art identified with code 069916-01-16	
Standard	UNI EN 12722:2013	Title	Assesment of surface resistance to dry heat.

CONDITIONING

Start date conditioning:	29/12/2016
End date conditioning:	01/02/2017

SAMPLE DESCRIPTION

Type of material:	particle board
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TEST RESULTS

FIRST TEST

Test temperature (°C)	Assessment registered according to Table 1 of standard UNI EN 12722:2013	Results
	Diffuse light source as par. 5.6 of standard	
55	5	No change
70	5	No change
100	5	No change
140	5	No change
180	5	No change

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**COSMOB**

LABORATORIO TECNOLOGICO QUALITÀ



LAB N° 0240

Test Report**n° TR 069916-01.9**

SECOND TEST

Test temperature (°C)	Assessment registered according to Table 1 of standard UNI EN 12722:2013	Results
	Diffuse light source as par. 5.6 of standard	
55	5	No change
70	5	No change
100	5	No change
140	5	No change
180	5	No change

**Class of use according
to the UNI CEN/TS
16209:2011*****A**

* This standard is not accredited by ACCREDIA

Note: sampling was carried out by customer. The name and the description of the sample are declared by the customer.

END OF THE TEST REPORT N° 069916-01.9

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Montelabbate: February 14th 2017.

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